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# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0128  
 CALIBRATION DATE: 22-Nov-07p

## SBE 43F OXYGEN CALIBRATION DATA

### COEFFICIENTS

Soc = 2.2507e-004  
 Foffset = -773.4773

A = -1.6190e-003  
 B = 2.3871e-004  
 C = -4.1929e-006  
 E = 0.036

BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(Hz)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.27	20.00	0.01	1638.239	1.27	0.00
1.27	26.00	0.01	1732.306	1.28	0.01
1.29	12.00	0.01	1527.738	1.29	0.00
1.29	30.00	0.01	1805.024	1.29	0.00
1.29	2.00	0.00	1367.590	1.29	-0.00
1.30	6.00	0.00	1436.022	1.30	-0.00
4.14	20.00	0.01	3576.584	4.13	-0.00
4.14	26.00	0.01	3873.596	4.14	-0.00
4.18	12.00	0.01	3212.676	4.17	-0.01
4.18	2.00	0.00	2695.315	4.18	-0.01
4.19	30.00	0.01	4115.054	4.19	0.00
4.20	6.00	0.00	2916.393	4.19	-0.01
6.59	30.00	0.01	6028.857	6.59	-0.00
6.62	26.00	0.01	5735.311	6.63	0.00
6.66	20.00	0.01	5291.740	6.66	-0.00
6.73	12.00	0.01	4713.021	6.74	0.00
6.81	6.00	0.00	4257.192	6.82	0.01
6.83	2.00	0.00	3916.881	6.83	0.00

Oxygen (ml/l) = Soc \* (F + Foffset) \* (1.0 + A \* T + B \* T<sup>2</sup> + C \* T<sup>3</sup>) \* OxSol(T,S) \* exp(E \* P / K)  
 F = frequency output from SBE43F, T = temperature [deg C], S = salinity [PSU] K = temperature [deg K]  
 OxSol(T,S) = oxygen saturation [ml/l], P = pressure [dbar]  
 Residual = instrument oxygen - bath oxygen

